

CONTROL RELAY, KS-15519

1. GENERAL

1.001 This addendum supplements Section A462.027, Issue 1.

1.002 This addendum is issued to include information for the KS-15519, List 2, control relay.

The following changes apply to Part 1 of this section.

- (a) 1.02 - revised
- (b) 1.09 - revised

1.02 The KS-15519, List 1, control relay is intended for use in the J86621 and J86622 main control cabinets, and the KS-15519, List 2, control relay is intended for use in the J86622 main control cabinet both of which are associated with 900-type plants in power systems.

1.09 The relay assembly consists of a relay, rheostat, capacitor, and tapped reactor connected in series and mounted on a panel or insulated base. By using different taps on the reactor and adjusting the rheostat, the operate and release voltage values of the relay can be set as follows:

List No.	Operate	Release	Frequency
1	190-230	180-220	60 cycles
2	103-122	98-117	60 cycles

The relay assembly is arranged for mounting on a vertical metal panel and is equipped with a cover switch which short circuits the capacitor when the cover over the terminals is removed.

3. ADJUSTING PROCEDURES

The following changes apply to Part 3 of the section:

- (a) 3.002 - revised
- (b) 3.07 (1) and (2) - revised

3.002 Because of the relatively high voltage on the terminals, all requirements, except the electrical requirements, should be checked and all adjusting procedures carried out with the relay de-energized. In the case of the J86621 or J86622 main control cabinet, this is accomplished by operating the BY-PASS switch to its NORMAL LINE TO LOAD position, with the engine-driven alternator not running. When checking the electrical requirements, see that the

contacts are disconnected from the checking circuit.

Caution: Use care when working in close quarters with live parts

3.07 Electrical Requirements (Rq 2.07)

(1) With the relay cleared from the working circuit, connect its input terminals (2 and 1 or 1A, etc., as found) across the output of a continuously tapped autotransformer, together with the portable voltmeter. Connect the autotransformer input to the ac supply through 2-1/2- or 3-ampere fuses. If there is no available autotransformer, in the case of either the J86621 or J86622 main control cabinets, operate the BY-PASS switch as covered in 3.002 and connect the relay and voltmeter through the fuses to the alternator. Operate the engine under manual control and adjust the alternator voltage with the field rheostat. Increase the applied voltage until the relay operates. Reduce the voltage to the required release value and adjust the rheostat to obtain release at this value. Check the operate and, if incorrect, connect to another tap on the reactor. Again increase the voltage to operate the relay, reduce the voltage to the release value, and adjust the rheostat to obtain release. Increase the voltage and recheck the operate.

(2) In general, the operate value of the relay depends upon the selection of a tap on the reactor, and the release depends upon the setting of the rheostat. The following tables relate the taps to the voltage range with which they are designed to be used:

LIST 1 RELAY

Service Voltage	Taps on Reactor
240	1, 1A, 1B
230	1A, 1B, 1C
220	1C, 1D, 1E
208	1E, 1F, 1G

LIST 2 RELAY

Service Voltage	Taps on Reactor
120	1, 1A
115	1A, 1B, 1C
105	1C, 1D, 1E
100	1E, 1F, 1G